

28-TYPE DATA MOUNTING IDENTIFICATION

1. GENERAL

1.01 This section covers the physical dimensions, weight, major components, and uses of the 28-type data mountings used to provide multiple data set arrangements.

1.02 This section is reissued to correct dimensions on the 28A1 data mounting and provide information on the 28C data mounting. Since this is a general revision, change arrows normally used to denote changes have been omitted.

1.03 The two 28-type data mountings identified in this section are as follows:

- 28A1 Data Mounting—provides housing for multiple data set arrangements (see Part 2 for the description).
- 28C Data Mounting—provides interconnections for multipoint arrangements for private line data sets when equipped with the 27B data unit and the KS-20575 power supply (see Part 3 for the description).

2. 28A1 DATA MOUNTING

2.01 The 28A1 data mounting (Fig. 1) is 6 inches high, 25 inches wide, 10 inches deep, and weighs approximately 15 pounds. It is designed to mount in either 23- or 25-inch racks.

2.02 The 28A1 data mounting consists of one 59C apparatus mounting, two KS-16786-L4 connectors, one KS-16671-L1 plug, sixteen 927D connectors, and one terminal block.

2.03 The connectors, plug, and terminal block provide the following:

- (a) KS-16786-L4 connectors (J1 and J2)—These are 50-pin connectors for connection of the 28A1 to the 27A1 data unit, 27B1 data unit, or to standard and locally engineered adapters. Connector J1 is associated with slots 1 through

8 and connector J2 is associated with slots 9 through 16.

(b) KS-16671-L1 plug (P3)—this is a 50-pin plug for connection of the 28A1 data mounting to the transmission facility via an intermediate distribution frame or terminal block.

(c) Terminal block (TB1)—for connection of the 28A1 data mounting to +24 volts dc, -24 volts dc, frame ground, and signal ground.

2.04 The dc voltages required for operation of the 28A1 data mounting must be supplied either externally or from a KS-20575 rectifier. The 28A1 data mounting is arranged to mount one KS-20575 rectifier which must be ordered separately. The power bus for slots 1 through 8 of the 28A1 data mounting is separate from the power bus for slots 9 through 16. This allows (if required) for each half of a particular 28A1 data mounting to be powered from separate individual power sources. In normal installations, both halves of a 28A1 data mounting will be powered by one source. This requires the strapping of terminals 1, 2, and 3 of TB1 on the data mounting to terminals 4, 5, and 6, respectively. In cases where the load requirements of a 28A1 data mounting does not exceed the power source (for example, KS-20575 rectifier) capacity, other data mounting halves may be powered from the same source by strapping between the TB1 terminals of the data mountings involved. In this way, as many data mounting halves as desired may be powered from one source as long as the total source drain does not exceed the power source limits.

2.05 The 28A1 data mounting is a general purpose mounting which will accommodate any thickness AR-type circuit pack having power pin assignments to pins 1, 8, and 20 and requiring external connections only to pins 3, 5, 7, 10, 14, 15, 16, 17, 18, and 19. Some typical applications of the 28A1 data mounting are as follows:

- (a) All data sets—in this application, the 28A1 data mounting will accommodate up to sixteen

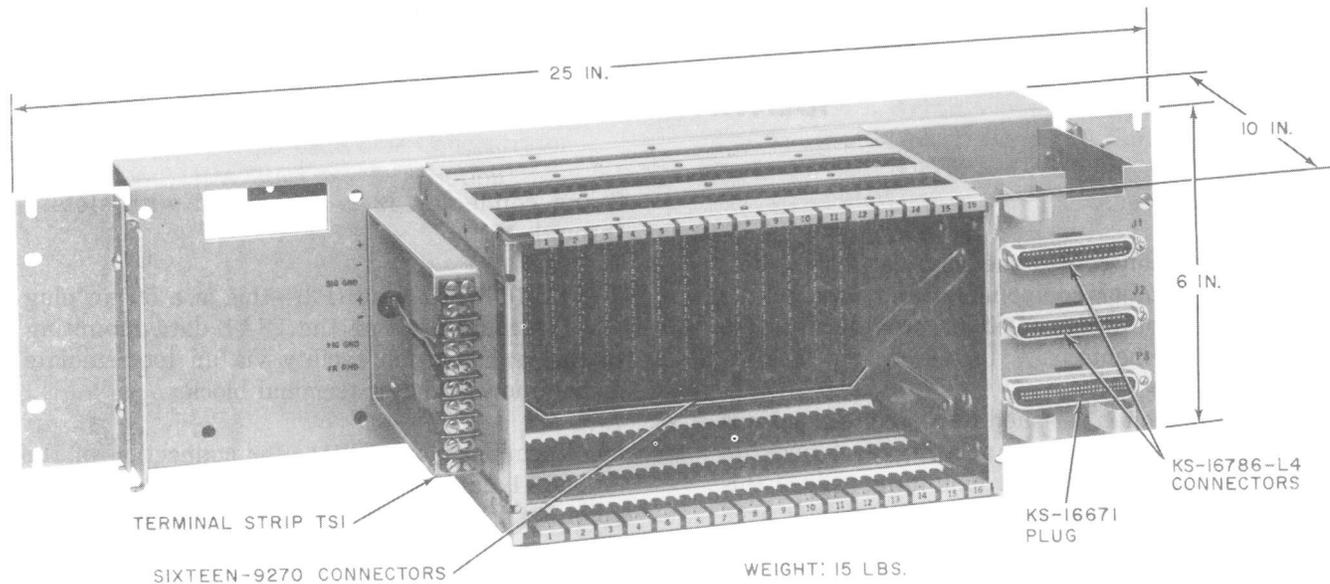


Fig. 1—28A1 Data Mounting

data sets 109D- or 109E-type, eight data sets 108D- or 108E-type, or five data sets 108A-, 108C-, or 109A-type. When fully equipped with data set 109D- or 109E-type, the 28A1 data mounting provides for connection of sixteen transmission facilities to sixteen customer-provided terminals via two 27A1 data units. When fully equipped with data sets 108D- or 108E-type, the 28A1 data mounting provides for connection of eight transmission facilities to eight customer-provided terminals via one 27B1 or two 27A1 data units. If the 28A1 data mounting is equipped with four 108A- and 108C-type data sets, the 27B1 data unit provides for connection to four transmission facilities.

(b) Information covering the use of the 208A, 208B, and 209A adapters for use in data line concentrator systems is given in Sections 591-811-102, 591-811-103, and 591-811-104, respectively.

3. 28C DATA MOUNTING

3.01 The 28C data mounting is designed for use with the 28A1 data mounting and the 27B1 data unit to provide a multipoint arrangement for private line data systems. The 28C data mounting provides alarm fuses for data sets and additional mounting space for the KS-20575 power supplies

and relays for alarm circuitry. Customer access is provided by the 27B1 data units mounted on the front of the 28C data mounting.

3.02 The 28C data mounting (Fig. 2) is 6-inches high, 25-inches wide, and 6-inches deep, and weighs approximately 15 pounds. It is designed to mount on either 23- or 25-inch racks.

3.03 Eight alarm fuses are furnished and are wired to terminal strip TS2. Terminal strip TS1 provides connections to the alarm fuses, fuse alarm relays, and power supplies. One or two 27B data units may be mounted on the front of the 28C data mounting.

3.04 The 28C data mounting, used with TSPS No. 1 hotel/motel applications, incorporates the following features:

- Terminal strips (TS1 and TS2) for connection of power, alarm fuse leads, and fuse alarm relays
- Eight alarm fuses
- Mounting holes for alarm relays and resistors
- Mounting holes for two 27B data units

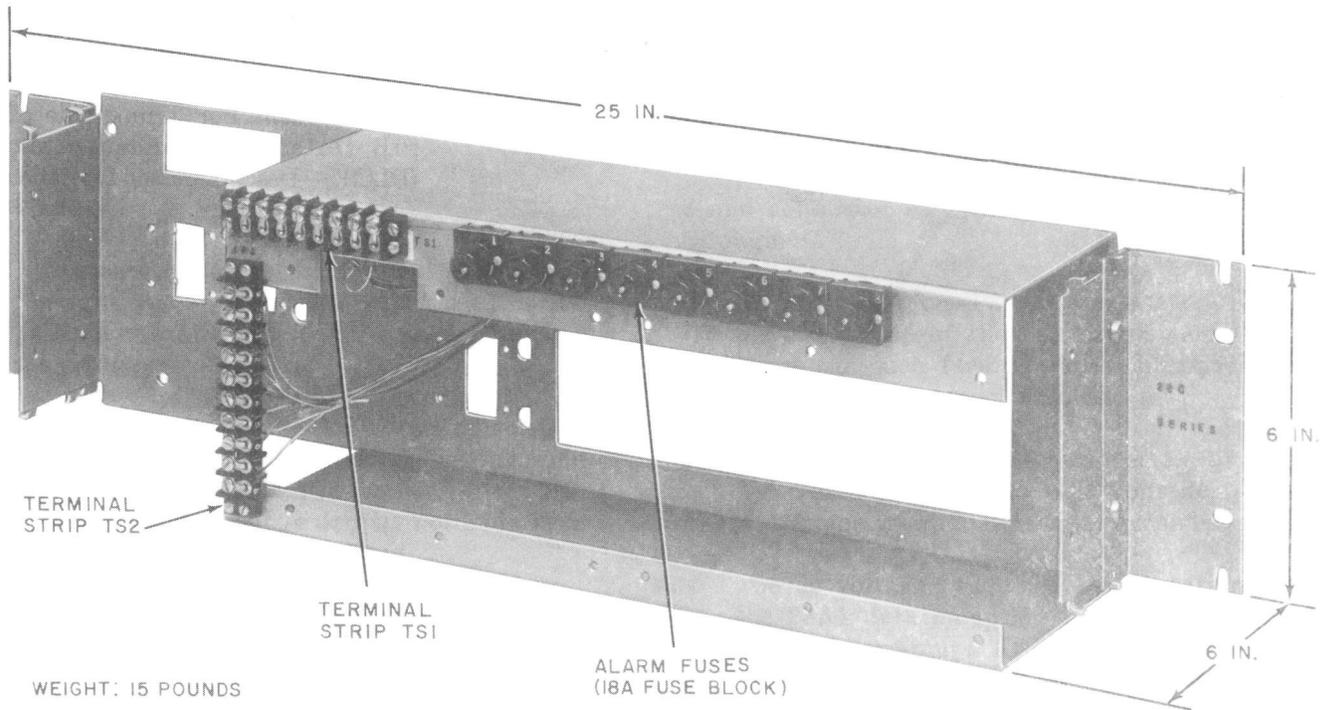


Fig. 2—28C Data Mounting

- Mounting holes for one KS-20575 power supply
- Mounting on 23- or 25-inch racks
- May be used with one or two 28A1 data mountings.

4. REFERENCES

4.01 Detailed information for the 28-type data mounting and related apparatus is covered in the following documents:

NUMBER	TITLE	591-029-101	Description
SD- & CD-1D176-01	28-Type Data Mounting	591-036-101	Arrangement Using 28A1 Data Mounting and 27B1 Data Unit—Description
SD- & CD-1D183-01	27-Type Data Unit	591-810-ZZZ	Data Set 109D-Type—Multiple Data Set Arrangement Using 28A1 Data Mounting and 27A1 Data Unit—Description
		591-811-ZZZ	10-Type Data Line Concentrator System—(DATREX*)
		591-811-102	10A and 10B Data Line Concentrator
SECTION	TITLE		
591-028-102	Data Set 108D- and E-Types—Multiple Private Line Station		Private Line Interconnection Arrangement for Line Side of 10-Type Data Line Concentrator—Description

SECTION 590-102-124

SECTION	TITLE	SECTION	TITLE
591-811-103	DATA-PHONE® Interconnection Arrangement For Line Side of 10-Type Data Line Concentrator (DATREX*)— Description	591-811-104	DATA-PHONE® Interconnection Arrangement For Trunk Side of 10B Data Line Concentrator (DLCS*)—Description and Operation